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TITLE: DIGITAL PROTECTION CONTROLLER
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INVENTOR-INFORMATION:

NAME	COUNTRY
KIDO, MITSUYASU	N/A
CHIBA, TOMIO	N/A
SAITO, SHINJI	N/A
KOBAYASHI, TAKASHI	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HITACHI LTD	N/A

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ABSTRACT:

PROBLEM TO BE SOLVED: To automatically correct a digital signal used for protection arithmetic processing according to a detected value by automatically detecting an offset generated in an analog system.

SOLUTION: An analog signal from a power system is taken into an analog filter 1b, and the analog signal is filtered by a multiplexer, while being sampled by an A/D converter 1c and being converted into a digital signal. Digital-filter arithmetic processing is executed to the

digital signal in a
digital filter 1e, an offset is extracted, and the offset
is stored in a memory
1g as an offset correction value. The digital signal by an
output from the A/D
converter 1c is subtracted and corrected successively at
the offset correction
value from the memory 1g in a subtracter 1h, and protection
arithmetic
processing for controlling a relay is conducted in
accordance with the
corrected digital signal.

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